

ABSTRACT

**METHOD AND APPARATUS
FOR
5 CONVEYING BIDIRECTIONAL DATA,
POWER AND TIMING SIGNALS
10 USING A SINGLE TRANSFORMER**

Transformer driven by data modulated signal provides isolated power. Outbound data is
10 extracted from the data modulated signal received from the transformer. Inbound data
received in isolated circuitry modulates the load presented to transformer. Inbound data
perceived in non-isolated circuitry by sensing load experienced by the transformer.